

RAW SEQUENCE LISTING

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Application Serial Number: 10/560,790A
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RAW SEQUENCE LISTING

DATE: 11/16/2006

PATENT APPLICATION: US/10/560,790A

TIME: 09:43:35

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\11162006\J560790A.raw

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3 <110> APPLICANT: Ghosh, Peter
5 <120> TITLE OF INVENTION: CONNECTIVE TISSUE DERIVED POLYPEPTIDES
7 <130> FILE REFERENCE: 10682.10USWO
9 <140> CURRENT APPLICATION NUMBER: US 10/560,790A
10 <141> CURRENT FILING DATE: 2005-12-15
12 <150> PRIOR APPLICATION NUMBER: PCT/AU2004/000788
13 <151> PRIOR FILING DATE: 2004-06-17
15 <150> PRIOR APPLICATION NUMBER: AU 2003903037
16 <151> PRIOR FILING DATE: 2003-06-17
18 <160> NUMBER OF SEQ ID NOS: 19
20 <170> SOFTWARE: PatentIn version 3.3
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 187
24 <212> TYPE: PRT
25 <213> ORGANISM: Artificial Sequence
27 <220> FEATURE:
28 <223> OTHER INFORMATION: Partial sequence of bovine NC4 domain of Type IX collagen
alpha 1
29     chain
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37 Pro Lys Val Arg Ile Gly Gln Asp Asp Leu Pro Gly Phe Asp Leu Ile
38           20           25           30
41 Ser Gln Phe Gln Ile Asp Lys Ala Ala Ser Arg Arg Ala Ile Gln Arg
42           35           40           45
45 Val Val Gly Ser Thr Ala Leu Gln Val Ala Tyr Lys Leu Gly Asn Asn
46           50           55           60
49 Val Asp Phe Arg Ile Pro Thr Arg His Leu Tyr Pro Asn Gly Leu Pro
50 65           70           75           80
53 Glu Glu Tyr Ser Phe Leu Thr Thr Phe Arg Met Thr Gly Ser Thr Leu
54           85           90           95
57 Glu Lys His Trp Ser Ile Trp Gln Ile Gln Asp Ser Ser Gly Lys Glu
58           100          105          110
61 Gln Val Gly Val Lys Ile Asn Gly Gln Thr Lys Ser Val Ser Phe Ser
62           115          120          125
65 Tyr Lys Gly Leu Asp Gly Ser Leu Gln Thr Ala Ala Phe Ser Asn Leu
66           130          135          140
69 Pro Ser Leu Phe Asp Ser Gln Trp His Lys Ile Met Ile Gly Val Glu
70 145          150          155          160
73 Arg Ser Ser Ala Thr Leu Phe Val Asp Cys Asn Arg Ile Glu Ser Leu
74           165          170          175
77 Pro Ile Lys Pro Arg Gly Gln Ile Asp Val Asp
78           180          185

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86 <220> FEATURE:
87 <223> OTHER INFORMATION: Type IX collagen alpha 1 chain peptide
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92 1          5
95 <210> SEQ ID NO: 3
96 <211> LENGTH: 9
97 <212> TYPE: PRT
98 <213> ORGANISM: Artificial Sequence
100 <220> FEATURE:
101 <223> OTHER INFORMATION: Type IX collagen alpha 1 chain peptide
103 <400> SEQUENCE: 3
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106 1          5
109 <210> SEQ ID NO: 4
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111 <212> TYPE: PRT
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114 <220> FEATURE:
115 <223> OTHER INFORMATION: Type IX collagen alpha 1 chain peptide
117 <400> SEQUENCE: 4
119 Lys Leu Gly Asn Asn Val Asp Phe Arg Ile
120 1          5          10
123 <210> SEQ ID NO: 5
124 <211> LENGTH: 11
125 <212> TYPE: PRT
126 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Type IX collagen alpha 1 chain peptide
131 <400> SEQUENCE: 5
133 Arg Ile Glu Ser Leu Pro Ile Lys Pro Arg Gly
134 1          5          10
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138 <211> LENGTH: 15
139 <212> TYPE: PRT
140 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: Type IX collagen alpha 1 chain peptide
145 <400> SEQUENCE: 6
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148 1          5          10          15
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152 <211> LENGTH: 21
153 <212> TYPE: PRT
154 <213> ORGANISM: Artificial Sequence

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156 <220> FEATURE:
 157 <223> OTHER INFORMATION: Type IX collagen alpha 1 chain peptide
 159 <400> SEQUENCE: 7
 161 Arg Ile Gly Gln Asp Asp Leu Pro Gly Phe Asp Leu Ile Ser Gln Phe
 162 1 5 10 15
 165 Gln Ile Asp Lys Ala
 166 20
 169 <210> SEQ ID NO: 8
 170 <211> LENGTH: 20
 171 <212> TYPE: PRT
 172 <213> ORGANISM: Artificial Sequence
 174 <220> FEATURE:
 175 <223> OTHER INFORMATION: Type IX collagen alpha 1 chain peptide
 177 <400> SEQUENCE: 8
 179 Arg His Leu Tyr Pro Asn Gly Leu Pro Glu Glu Tyr Ser Phe Leu Thr
 180 1 5 10 15
 183 Thr Phe Arg Met
 184 20
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 188 <211> LENGTH: 26
 189 <212> TYPE: PRT
 190 <213> ORGANISM: Artificial Sequence
 192 <220> FEATURE:
 193 <223> OTHER INFORMATION: Type IX collagen alpha 1 chain peptide
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 198 1 5 10 15
 201 Ser Leu Phe Asp Ser Gln Trp His Lys Ile
 202 20 25
 205 <210> SEQ ID NO: 10
 206 <211> LENGTH: 9
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 210 <220> FEATURE:
 211 <223> OTHER INFORMATION: Type IX collagen alpha 1 chain peptide
 213 <400> SEQUENCE: 10
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 216 1 5
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 220 <211> LENGTH: 13
 221 <212> TYPE: PRT
 222 <213> ORGANISM: Artificial Sequence
 224 <220> FEATURE:
 225 <223> OTHER INFORMATION: Type IX collagen alpha 1 chain peptide
 227 <400> SEQUENCE: 11
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 230 1 5 10
 233 <210> SEQ ID NO: 12
 234 <211> LENGTH: 439

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235 <212> TYPE: PRT

236 <213> ORGANISM: Artificial Sequence

238 <220> FEATURE:

239 <223> OTHER INFORMATION: Cartilage oligomeric matrix protein [Fragment] - bovine

241 <400> SEQUENCE: 12

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247 Asp Gln Arg Asn Thr Asp Gly Asp Lys Trp Gly Asp Ala Cys Asp Asn
248          20          25          30
251 Cys Arg Ser Gln Lys Asn Asp Asp Gln Lys Asp Thr Asp Lys Asp Gly
252          35          40          45
255 Arg Gly Asp Ala Cys Asp Asp Ile Asp Gly Asp Arg Ile Arg Asn
256          50          55          60
259 Pro Val Asp Asn Cys Pro Lys Val Pro Asn Ser Asp Gln Lys Asp Thr
260 65          70          75          80
263 Asp Gly Asp Gly Val Gly Asp Ala Cys Asp Asn Cys Pro Gln Lys Ser
264          85          90          95
267 Asn Ala Asp Gln Arg Asp Val Asp His Asp Phe Val Gly Asp Ala Cys
268          100         105         110
271 Asp Ser Asp Gln Asp Gln Asp Gly Asp Gly His Gln Asp Ser Lys Asp
272          115         120         125
275 Asn Cys Pro Thr Val Pro Asn Ser Ala Gln Gln Asp Ser Asp His Asp
276          130         135         140
279 Gly Gln Gly Asp Ala Cys Asp Asp Asp Asp Asn Asp Gly Val Pro
280 145         150         155         160
283 Asp Ser Arg Asp Asn Cys Arg Leu Val Pro Asn Pro Gly Gln Glu Asp
284          165         170         175
287 Met Asp Arg Asp Gly Val Gly Asp Ala Cys Gln Gly Asp Phe Asp Ala
288          180         185         190
291 Asp Lys Val Val Asp Lys Ile Asp Val Cys Pro Glu Asn Ala Glu Val
292          195         200         205
295 Thr Leu Thr Asp Phe Arg Ala Phe Gln Thr Val Val Leu Asp Pro Glu
296          210         215         220
299 Gly Asp Ala Gln Ile Asp Pro Asn Trp Val Val Leu Asn Gln Gly Met
300 225         230         235         240
303 Glu Ile Val Gln Thr Met Asn Ser Asp Pro Gly Leu Cys Val Gly Tyr
304          245         250         255
307 Thr Ala Phe Asn Gly Val Asp Phe Glu Gly Pro Phe His Val Asn Thr
308          260         265         270
311 Ala Thr Asp Asp Asp Tyr Ala Gly Phe Ile Phe Gly Tyr His His Ser
312          275         280         285
315 Ser Ser Phe Tyr Val Val Met Trp Lys Gln Met Glu Gln Thr Tyr Trp
316          290         295         300
319 Gln Ala Asn Pro Phe Arg Ala Val Ala Glu Pro Gly Ile Gln Leu Lys
320 305         310         315         320
323 Ala Val Lys Ser Ser Thr Gly Pro Gly Glu Gln Leu Arg Asn Ala Leu
324          325         330         335
327 Trp His Thr Gly Asp Thr Ala Ser Gln Val Arg Leu Leu Trp Lys Asp
328          340         345         350

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331 Pro Arg Asn Val Gly Trp Lys Asp Lys Thr Ser Tyr Arg Trp Phe Leu
332      355      360      365
335 Gln His Arg Pro Gln Val Gly Tyr Ile Arg Val Arg Phe Tyr Glu Gly
336      370      375      380
339 Pro Glu Leu Val Ala Asp Ser Asn Val Ile Leu Asp Thr Thr Met Arg
340 385      390      395      400
343 Gly Gly Arg Leu Gly Val Phe Cys Phe Ser Gln Glu Asn Ile Ile Trp
344      405      410      415
347 Ala Asn Leu Arg Tyr Arg Cys Asn Asp Thr Ile Pro Glu Asp Tyr Glu
348      420      425      430
351 Ala Gln Arg Leu Leu Gln Ala
352      435
355 <210> SEQ ID NO: 13
356 <211> LENGTH: 159
357 <212> TYPE: PRT
358 <213> ORGANISM: Artificial Sequence
360 <220> FEATURE:
361 <223> OTHER INFORMATION: Odorant-binding protein - bovine
363 <400> SEQUENCE: 13
365 Ala Gln Glu Glu Glu Ala Glu Gln Asn Leu Ser Glu Leu Ser Gly Pro
366 1      5      10      15
369 Trp Arg Thr Val Tyr Ile Gly Ser Thr Asn Pro Glu Lys Ile Gln Glu
370      20      25      30
373 Asn Gly Pro Phe Arg Thr Tyr Phe Arg Glu Leu Val Phe Asp Asp Glu
374      35      40      45
377 Lys Gly Thr Val Asp Phe Tyr Phe Ser Val Lys Arg Asp Gly Lys Trp
378 50      55      60
381 Lys Asn Val His Val Lys Ala Thr Lys Gln Asp Asp Gly Thr Tyr Val
382 65      70      75      80
385 Ala Asp Tyr Glu Gly Gln Asn Val Phe Lys Ile Val Ser Leu Ser Arg
386      85      90      95
389 Thr His Leu Val Ala His Asn Ile Asn Val Asp Lys His Gly Gln Thr
390      100     105     110
393 Thr Glu Leu Thr Glu Leu Phe Val Lys Leu Asn Val Glu Asp Glu Asp
394      115     120     125
397 Leu Glu Lys Phe Trp Lys Leu Thr Glu Asp Lys Gly Ile Asp Lys Lys
398      130     135     140
401 Asn Val Val Asn Phe Leu Glu Asn Glu Asp His Pro His Pro Glu
402 145     150     155
405 <210> SEQ ID NO: 14
406 <211> LENGTH: 245
407 <212> TYPE: PRT
408 <213> ORGANISM: Artificial Sequence
410 <220> FEATURE:
411 <223> OTHER INFORMATION: human collagen type IX NC4 domain
413 <400> SEQUENCE: 14
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416 1      5      10      15
419 Gly Asn Glu Leu Cys Pro Lys Ile Arg Ile Gly Gln Asp Asp Leu Pro

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VERIFICATION SUMMARY

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